

SHULYAKOVSKIY, Lev Gertsovich; SAGATOVSKIY, N.V., otv.red.; KORNILENKO,
V.S., red.; ZARKH, I.M., tekhn.red.

[Beginning of ice formation and freezing of rivers, lakes, and
reservoirs; calculations for prognostic purposes] Pojavlenie
l'da i nachalo ledostava na rekakh, ozerakh i vodokhranilishchakh;
raschaty dlia tselei prognozov. Moskva, Gidrometeor.izd-vo, 1960.
215 p. (MIRA 13:11)

(Ice on rivers, lakes, etc.)

KATS, Abram L'vovich; VANGENGHEYM, G.Ya., prof., retsenzent; POKROVSKAYA,
T.P., kand.nauk, retsenzent; SAGATOVSKIY, N.V., red.;
VLADIMIROV, O.G., tekhn.red.

[Seasonal variations in general atmospheric circulation and
long-range weather forecasting] Sezonnye izmeneniia obshchei
tsirkulatsii atmosfery i dolgosrochnye prognozy. Leningrad,
Gidrometeor.izd-vo, 1960. 269 p. (MIRA 14:2)
(Weather forecasting)

VOVCHENKO, Pavel Grigor'yevich; ZUBKOV, Aleksandr Yemel'yanovich;
POGOSYAN, Kh.P., prof., retsenzent; ZAMORSKIY, A.D., prof.,
retsenzent; PED', D.A., kand.geogr.nauk, retsenzent;
DREMLYUG, V.V., kand.geogr.nauk, retsenzent; SAGATOVSKIY,
N.V., red.; LAVRENOVA, N.B., tekhn.red.

[A brief course in meteorology and oceanography for ship
navigators] Kratkii kurs meteorologii i okeanografii dlia
sudovoditelei. Moskva, Izd-vo "Morskoi transport," 1960.
359 p. (MIRA 13:7)
(Meteorology, Maritime) (Oceanography)

KULIK, M.S.; SAGATOVSKIY, N.V.

Transactions of the Kazakh Hydrometeorological Research Institute
dealing with agricultural meteorology. Meteor. i gidrol. no.10:
51-55 0 '60. (MIRA 13:10)
(Kazakhstan--Meteorology, Agricultural)

ZUBYAN, Gevorg Davidovich; SAGATOVSKIY, N.V., otv. red.; BLINNIKOV, L.V.,
red.; ZARKH, I.M., ~~tekh. red.~~

[Synoptic aerological investigation of the upper troposphere
and the lower stratosphere] Sinoptiko-aerologicheskoe issledo-
vanie verkhnei troposfery i nizhnei stratosfery. Moskva, Gidro-
meteor. izd-vo (otd-nie), 1961. 71 p. (MIRA 14:9)
(Meteorology)

PAGAVA, Serapion Tadayevich; ~~SAGATOVSKIY~~, N.V., otv. red.; MOKRETSOV,
A.M., red.; ZARKH, I.M., ~~tekh. red.~~

[Principles underlying long-range forecasting of weather a
short period in advance] Printsipy sostavleniia dolgosrochnykh
prognozov pogody maloi zablagovremennosti. Moskva, Gidro-
meteor. izd-vo (otdelenie), 1961. 76 p. (MIRA 14:9)
(Weather forecasting)

SAGATOVSKIY, N.V.

Terminological Commission of the Central Weather Institute.
Meteor. i gidrol. no.1:69-70 Ja '61. (MIRA 14:1)
(Meteorology—Terminology)

SAGATOVSKIY, N.V.

In the Terminological Commission of the Central Weather Institute.
Meteor. i gidrol. no.12:61-62 D '61. (MIRA 14:11)
(Meteorology--Terminology)

PCHELKO, Ivan Grigor'yevich; SAGATOVSKIY, N.V., red.; AKONS, G.A.,
tekhn. red.

[Aviation meteorology] Aviatsionnaia meteorologiya. Lenin-
grad, Gidrometeoizdat, 1963. 345 p. (MIRA 17:3)

SAGATOVSKIY, V.N.

Use of triphenyltetrazole chloride for rapid quantitative determination of live cells in plague vaccine. Zhur. mikrobiol. epid. i imm. 32 no.5:51-54 My '61. (MIRA 14:6)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo protivochumnogo instituta Ministerstva zdravookhraneniya SSSR.
(PLAGUE) (TETRAZOLIUM COMPOUNDS)

SAGATSKIY A.

238T50

USSR/Electricity - Wind-Electric Power
Wired Radio

Apr 52

"Type VE-2 Wind-Electric Units in the Far North,"
A. Sagatskiy, Krasnoyarsk

"Radio" No 4, p 4

More than 30 type KRU-2 wired radio centers having VE-2 wind-powered motors were installed in Krasnoyarsk Kray in 1951; over 50% of them were placed in the Taymyr National District. The VE-2 develops sufficient power at wind velocities above 5 m/sec to supply some electrification needs as well as the KRU-2 centers.

238T50

ORIGIN : USSR
SUBJECT : Cultivated Plants. Grains. Leguminous Grains.
Tropical Cereals.
USSR JOURNAL : Ref Zhur-Biologiya, No. 1, 1959, No. 1630
Author : Saratskaya, M.A.; Marochkina, Ye.F.; *
Inst. : Altay Agric. Inst.
TITLE : The Effect of Joint Application of Azotobacter
and Fungicides on Corn Growth.
ORIG. PUB. : So. stud. nauchn. robot. Altaysk. s.-kn. in-t,
1957, vyp. 6, 38-43
ABSTRACT : No abstract.

* Pushkina, F/K.

CARD : 1/1

54

PONOMAREVA, Ya.D., dotsent; SAGAYDACHNYKH, N.A.

Clinical aspects of progeria. Terap.arkh.27 no.3:77-80 '55.
(MLRA 8:9)

1. Iz 4-y kafedry terapii (zav.-chlen-korrespondent AMN SSSR
prof. P.I. Yegorov) Tsentral'nogo instituta usovershenstvovaniya
vrachey i Tsentral'noy klinicheskoy bol'nitsy Ministerstva putey
soobshcheniya SSSR.

(PROGERIA,
case reports)

SAGAYDACHNYY, A.

Problems in further development of collective farm. Sov.torg. no.8:
9-13 Ag '57. (MLRA 10:8)

(Collective farms)

KHITUN, Vsevolod Andreyevich; SAGAYDACHNYY, Yu.A., red.; VORONIN, K.P.,
tekhn.red.

[Nuclear counters and counting devices] Schetchiki iadernogo
izlucheniia i schetnye ustroistva. Moskva, Gos.energ.izd-vo,
1959. 72 p. (Massovaya radiobiblioteka, no.338) (MIRA 12:12)
(Nuclear counters)

BELOTSERKOVSKIY, Grigoriy Bentsionovich; SAGAYDACHNIY, Yu.A., red.;
LARIONOV, G.Ye., tekhn.red.

[Microwaves] Millimetrovye volny. Moskva, Gos.energ.izd-vo,
1959. 79 p. (Massovaia radiobiblioteka, no.352).

(MIRA 13:1)

(Microwaves)

DMITRIYEV, B.A., polkovnik meditsinskoy sluzhby, dotsent; KRINITSKIY, A.F.;
podpolkovnik meditsinskoy sluzhby; SAGAYDAK, I.I., kapitan meditsinskoy sluzhby

Simple method for determining the amount of blood lost by patients
during surgical operations. Voen.-med. zhur. no.3:62-64, Mr '60.
(MIRA 14:1)

(SURGERY, OPERATIVE)

(HEMOGLOBIN)

(BLOOD VOLUME)

ZUDIN, V.M.; SAGAYDAK, I.I.; YAKOBSON, A.P.; BABARYKIN, N.N.; DORMAN, V.G.;
GALATONOV, A.L.; LEKIN, P.V.

Preparation of screened sinter and its use in blast furnace
smelting. Stal' 22 no.8:675-679 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Sintering)
(Blast furnaces—Equipment and supplies)

GALEMIN, I.M.; SAGAYDAK, I.I.; LEPIKHIN, L.A.

Service of grog and high-alumina firebrick in blast furnace
stacks. Ogneupory 27 no.9:403-408 '62. (MIRA 15:8)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii (for
Galemin). 2. Magnitogorskiy metallurgicheskiy kombinat (for
Sagaydak, Lepikhin).

(Firebrick)

SAGAYDAK, I.I. (Chelyabinsk); ZHILO, N.L. (Chelyabinsk); BOL'SHAKOVA, L.I.
(Chelyabinsk)

Viscosity of the blast furnace slags from the Magnitogorsk
Metallurgical Combine. Izv. AN SSSR. Otd. tekhn. nauk. Met. i gor.
delo no.3:50-57 My-Je '63. (MIRA 16:7)
(Magnitogorsk--Blast furnaces) (Slag) (Viscosimetry)

KOPYRIN, I.A.; OSTROUKHOV, M.Ya.; STEFANOVICH, M.A.; BORTS, Yu.M.; SAGAYDAK, I.I.; SHPARBER, L.Ya.; VOLKOV, Yu.P.

Heat balance of smelting with a low slag yield for the Magnitogorsk blast furnace. Izv.vys.ucheb.zav.; chern. met. 8 no.4:45-52 '65.
(MIRA 18:4)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii, Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy gornometallurgicheskiy institut.

SAGAYDAK, I.M. [Sahaidak, I.M.], kand.biolog.nauk (Odessa)

Double-root plants. Nauka i zhyttia 10 no. 10:34-35 0 '60.
(MIRA 14:4)

(Grafting) (Roots (Botany))

SAGAYDAK, I. N.

Grafting

Increasing the productivity of plants by grafting-on of an additional root, Sel. i sem. 19
No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

SAGAYDAK, I.N.
SAGAYDAK, I.N., kand. biol. nauk.

Growing hybrid seeds of some agricultural crops. Biol. v shkole
no.6:75-77 N-D '57.. (MIRA 10:12)
(Hybridization, Vegetable---Study and teaching)
(Seed industry)

SAGAYDAK I. N.

Country : USSR
CATEGORY :

ABST. JOUR. : RZBiol., No. 19, 1958, No. 37154

AUTHOR : Sagaydak, I. N.
INST. : Odessa University
TITLE : Resistance to Cold of Hybrids Between
Varieties of Jute.

ORIG. PUB. : Tr. Odessk. un-ta. Ser. biol. n., 1957, 147,
No 8, 79-82

ABSTRACT : Investigations on the development of cold-resistant and high-yield varieties of jute were carried out in 1952, in the vicinity of Odessa, at the test plots of the Odessa University. Use was made of hybridization between different varieties, under the conditions of pollination with mixed pollen. In the experiments the following varieties were tested, the seeds of which were obtained from Central Asia: 420, 53, 28, K-68, K-4, K-32, Africa 19, Switzerland No 3, K-3, Italy 2, K-1, Algeria 4, and Egypt No 15. Altogether 467 numbers of hybrids between varieties were sowed. Sowing was done at an unusually early date -- 26 April 1952. Resistance to cold of the plants varied depending on maternal variety and the time of crossing. -- V. Z. Tselik.

CARD:///

Country : USSR M
 Category : CULTIVATED PLANTS.COMMERCIAL. Oleiferous. Sugar-
 Bearing.
 Abs. Jour. : REF ZHUR-BIOL.21,1958,NO 96053
 Author : Sagaydak, I.N.
 Institut. : Odessa Univ.
 Title : The Influence of the Length of Day on the Develop-
 ment of Jute
 Orig. Pub. : Tr. Odessk. un-ta. Ser. biol. n., 1957, 147, No.
 8, 83-88
 Abstract : The cultivation of jute is possible in the new,
 more northerly districts only by means of planting
 seeds which have been grown in these conditions.
 An experiment was made with 420, 53 and K-32 jute
 varieties which are most widely found in the
 productive plantings in Central Asia. The plots
 with each variety had three rows, six meters long,
 with 60 cm between the rows and the seeds planted
 3 cm deep. Reduction in the length of day
 was produced with wooden boxes 5 m long. The
 Card: 1/3

USSR / Cultivated Plants. Fruit Trees. Small
Fruit Trees.

M-7

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73136.

Author : Sagaydak, I. N.
Inst : Odessa University.
Title : Influence of Additional Roots on the Growth of Pear
Trees. (Rootstock).

Orig Pub: Nauchn. yezhegodnik Odessk. un-t, 1956, Odessa, 1957,
280.

Abstract: with the grafting of additional roots to pear tree
seedlings the height of the plants increased.

Card 1/1

129

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446720019-7"

CATEGORY : Cultivated Plants. Cereals.

M

REF. JOUR. : Ref-Biol., No.14, 1958, No. 63334

Author : Sagaydak, I. N.
Inst. : Odessa University
TITLE : Variability of Furcated Barley in Fall Sowing.

ORIG. PUB. : Nauch. yezhegodnik. Odessk. un-t, 1956. Odessa, 1957,
281-282

ABSTRACT : Studies were conducted during 1950-1956 on the barley
variant Horsfordianum. A great diversity in the furcation
of this barley variant was observed in plants surviving
after fall sowing: under certain unusual conditions, the
forks turned into beards. A sowing was carried out in
the spring of 1955; out of 75 plants which sprouted, 12
were albinos and morphological changes in the spike were
observed. All of the above-stated changes in the barley
variant Horsfordianum took place as the result of growing
it under the unusual conditions of late fall sowing. --
S. A. Remizov

Card: 1/1

SAGAYDAK I.N.
SAGAYDAK, I.N.

Variability of furcate barley sown in fall. Agrobiologiya no.1:132-134 Ja-F '58. (MIRA 11:2)

1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova.
(Barley) (Botany--Variation)

SAGAYDAK, I.M. [Sahaidak, I.M.], dots.

New method of changing the growth and development of
plants. Na dopom.sil'.hosp.ta vyr. no.5:49-50 '58.
(MIRA 13:3)

1. Kafedra genetiki i darvinizma Odesskogo gosuniversiteta.
(Roots(Botany)) (Growth(Plants))

SAGAYDAK, I.N., kand.biolog.nauk

Vegetative hybridization of radishes by grafting additional roots.
Agrobiologiya no.3:453-455 My-Je '59. (MIRA 12:9)

1. Odesskiy gosudarstvennyy universitet imeni I.I.Mechnikova,
kafedra genetiki i darvinizma.
(Radishes)

SAGAYDAK, I.N.

Concerning I.I.Puzanov's articles published in the biological
bulletin of the Moscow Naturalists' Society. Biul.MOIP.Otd.biol.
64 no.1:150-152 Ja-F '59. (MIRA 12:7)
(Marine fauna) (Salts--Physiological effect) (Puzanov, I.I.)

17(4),30(1)
AUTHOR:

Sagaydak, I. N.

SOV/20-126-6-63/67

TITLE:

Increasing Pigment in Beet-leaves by Grafting (Uvelicheniye pigmentov v list'yakh svekly putem privivki)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1375-1377 (USSR)

ABSTRACT:

In contrast to the other parts of the plant, the grafting of roots is rarely applied though the important role played by the root in the life of the plant is well known (Refs 1-3,6,7,10,13). There is a definite known interdependence between the chlorophyll content and photosynthesis, and even crop yield and quality (Refs 5,8,14). In 1957 the author carried out an investigation as to the effect produced by mutual grafting of additional roots of the sugar beet and garden turnip on the amount of green pigment in the leaves. On April 5, seeds of the garden turnip (type Skvirskaya 34) and of the sugar beet (Verkhnyachskaya 020) were sown in distances of 45 cm between the rows. Test variants were: a) sugar beet control plants, b) sugar beet with grafted garden turnip root, c) garden turnips with sugar beet roots, d) garden turnip control plants. The grafting was carried out on June 5, the plants having

Card 1/3

Increasing Pigment in Beet-leaves by Grafting

SOV/20-126-6-63/67

begun their germination on April 30 and being completely germinated by May 3. The diameter of the root at the time of grafting was 0.3-0.5 cm. The plants were dug out and re-planted. Figure 1 shows the technique of grafting. On September 14 and September 23 as well as on October 19, leaves were taken for analysis (analysis carried out by K. B. Bur-lay). From table 1 it is seen that the percentage of dry sub-stance was highest in the garden turnip leaves but started to decrease after grafting with the additional sugar beet root. In the grafting of a garden turnip root into a sugar beet the dry substance tends to increase. The chlorophyll content a + b in garden turnip leaves and leaves of the grafted variants was considerably decreased towards October 19. The mean value taken from 3 samples shows that the amount of pigment in leaves of garden turnips with grafted sugar beet roots was 60 % higher than in garden turnip leaves, and in the case of sugar beet with grafted garden turnip root 20 % higher than in sugar beet leaves. After some time the amount of pigment equalizes in both variants with grafted roots (it becomes 2.28 or 2.30 %). Table 2 gives a comparison between the amount of green pigment and the average weight of the

Card 2/3

Increasing Pigment in Beet-leaves by Grafting

SOV/20-126-6-63/67

root and the amount of sugar according to the test variants. The root weight was higher in the grafted variants than in the respective control plants (analogy in tomatoes, reference 10). The amount of sugar varied. The above mentioned investigation not only confirms the essential part played by the root in the formation of pigment (Ref 4), but also shows a way for the increase of the amount of green pigment with grafted plants. There are 1 figure, 2 tables, and 14 Soviet references.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

PRESENTED: March 10, 1959, by A. L. Kursanov, Academician

SUBMITTED: October 11, 1958

Card 3/3

SIMONENKO, V.K. [Symonenko, V.K.], student biolog.fakul'teta; VOROB'EV,
A.I. [Vorobiov, A.I.], prof., nauchnyy rukovoditel';
SAGAYDAK, I.M. [Sahaidak, I.M.], dots., nauchnyy rukovoditel'

Studies on intergeneric vegetative hybridization of tomatoes
with the Bolgarskii 14 eggplant. Pratsi Od.un. Zbir.stud.rob.
149 no.5:183-185 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet.
(Tomatoes) (Eggplant)

RAKOVSKAYA, Z.M. [Rakovs'ka, Z.M.], student biolog.fakul'teta;
SAGAYDAK, I.M. [Sahaidak, I.M.], dots., nauchnyy rukovoditel'.

Comparison of Odessa 10 and Golden Empress corn varieties
and their hybrids. Pratsi Od.un. Zbir.stud.rob. 149 no.5:
187-188 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet.
(Corn(Maize)--Varieties)

SAGAYDAK, I.N., kand.biologicheskikh nauk

Grafting root crops. Biol.v shkole no.4:85-86 J1-Ag '60.
(MIRA 13:7)

1. Odesskiy gosudarstvennyy universitet imeni I.I.Mechnikova.
(Grafting--Study and teaching)
(Root crops)

SAGAYDAK, I.N.

Increase in the amount of dry matter, sugars, pigments, and enzymes
in grafted carrot plants. Dokl.AN SSSR 136 no.1:237-240 Ja '61.
(MIRA 14:5)

1. Odesskiy gosudarstvennyy universitet im. I.I.Mechnikova.
Predstavleno akademikom T.D.Lysenko.
(Grafting) (Plants—Chemical composition) (Carrots)

SAGAYDAK, I.N.

Producing tomato seeds of increased viability (heterotic)
by grafting additional roots. Agrobiologiya no.5:715-719
S-G'63. (MIRA 17:5)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

SAGAYDAK, I.N., kand. biolog. nauk

Grafting auxiliary tobacco roots on tomatoes. Agrobiologiya
no.6:934-935 N-D '63. (MIRA 17:2)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

SAGAYDAK, I.M.

Almond and pear plants having two roots. Nauch. Zhukl. vye. zhukoly;
biol. nauki no.1:183-185 1965. (MIRA 13:2)

1. Rekomendovana kafedroy genetiki i darvinizma Odesskogo gosudarst-
vennogo universiteta.

SAGAYDAK, L. P. Cand Med Sci -- (diss) "Data on laboratory diagnostics of bacterial dysentery." Tomsk, 1957. 10 pp 20 cm. (Min of Health USSR. Tomsk State Med Inst im V. M. Molotov), 200 copies (KL, 24-57, 121)

NOVIKOVA, V.N.; SAGAYDAK, L.P.; IGOIKIN, N.I.

Leptospirosis in Tomsk Province. Zhur.mikrobiol., epid.i immun. 30
no.11:64-68 N '59. (MIRA 13:3)

1. Iz Tomskogo meditsinskogo instituta i Tomskogo instituta vaktsin
i syvorotok.

(LEPTOSPIROSIS epidemiol.)

SABAYDAN, L. F.

PAGE I BOOK EXHIBITION 807/116

Book. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

Editorial Board: S. G. Tyshchenko (Sergey M.) Director of the Tomsk Scientific Research Institute of Virology and Bacteriology; S. P. Karpov (Sergey M.) Professor; M. I. Kuznetsov (Sergey M.) M.D. (Microbiology); M. A. Mordukhai (Sergey M.) M.D. (Microbiology); M. A. Mordukhai (Sergey M.) M.D. (Microbiology).

NOTE: This collection of articles is intended for biologists, physicians, and medical personnel.

CONTENTS: The collection contains 18 papers on problems of epidemiology and virology and 35 reports on the theory and practice of immunology. The papers are arranged in two sections: the first section contains 18 papers on epidemiology and virology, the second section contains 35 papers on immunology. The following articles will be abstracted: 1. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

2. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

3. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

4. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

5. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

6. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

7. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

8. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

9. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

10. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

11. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

12. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

13. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

14. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

15. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

16. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

17. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

18. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

19. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

20. Bacterio-antigenically inactive variant 1. S. Typhimurium, Vol. 11 (Proceedings of the Tomsk Scientific Research Institute of Virology and Bacteriology, Vol. 11) Tomsk, Izdat. Tomskogo universiteta, 1960. 367 p., 1,700 copies printed.

NOVIKOVA, V.N.; SAGAYDAK, L.P.; IGOLKIN, N.I.

Reservoirs and sources of leptospira infection in Tomsk Province.
Trudy TomNIIVS 11:81-85 '60. (MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(TOMSK PROVINCE—LEPTOSPIRA)

NOVIKOVA, V.N.; SAGAYDAK, L.P. _____

Biological characteristics of leptospira strains isolated in
Tomsk Province. Trudy TomNIIVS 11:86-90 '60. (MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok
i Tomskiy meditsinskiy institut.
(TOMSK PROVINCE—LEPTOSPIRA)

NOVIKOVA, V.N.; SAGAYDAK, L.P.; VERSHININA, T.A.; IGOLKIN, N.I.

Natural leptospirosis focus in Shargarsky District, Tomsk
Province. Trudy Tom NIIVS 12:65-69 '60 (MIRA 16:11)

1. Tomskiy meditsinskiy institut i Tomskiy nauchno-issledo-
vatel'skiy institut vaktsin i syvorotok.

*

SAGAYDAK, L.P.; NOVIKOVA, V.N.; IGOLKIN, N.I.

The vole *Microtus gregalis* and the red-backed bank vole
Clethrionomys glareolus as experimental *Leptospira* carriers.
Trudy TomNIIVS 14:30-82 '63. (MIRA 17:7)

1. Tomskiy meditsinskiy institut i Tomskiy nauchno-issledova-
tel'skiy institut vaktsin i syvorotok.

MINOS'YAN, A.; SAGAYDAK, N.

New meat products. Mias.ind.SSSR 30 no.2:19 '59.
(MIRA 13:4)

1. Dnepropetrovskiy myasokombinat.
(Dnepropetrovsk--Packing-house products)

SAGAYDAK, N. A.

PHASE I BOOK EXPLOITATION

SOV/4612

Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki

Avtomatizatsiya proizvodstvennykh protsessov, vyp. 3 (Automation of Production Processes, No. 3) Moscow, 1960. 134 p. Errata slip inserted. 5,000 copies printed.

Resp. Ed.: V.L. Lossiyevskiy, Professor, Doctor of Technical Sciences; Ed. of Publishing House: Ye. N. Grigor'yev; Tech. Ed.: O.M. Gus'kova.

PURPOSE: This collection of articles is intended for scientific and engineering personnel in industry.

COVERAGE: The present (third) volume of the collection of articles "Automation of Production Processes" contains data on general problems of automation of specific industries. Problems of classification analysis as applied to the automation of discrete engineering processes and typical solutions in the automation of machines are developed; some averaged indices of capital and operational expenditures for industrial automation are considered. The effect of extended impulse pipelines on the stability of automatic-control systems containing regulators of pneumatic and hydraulic type is discussed. The selection

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Automation of Production Processes, No. 3

SOV/4612

and analysis of a generalized scheme of automatic airconditioning for production purposes, applied to textile industry, are described. Finally, problems in the rational training of engineering personnel in the field of automation of production processes are considered. No personalities are mentioned. There are 49 references: 39 Soviet, 4 English, 4 German, 1 French, and 1 Polish.

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2. Pliskin, L.G., and N.A. Sagaydak. On the Classification of Schemes of Self-Regulation of Processes in a Boiling Layer 44
3. Finkel'shteyn, S.M. Characteristics of an Impulse Pipeline as an Element of an Automatic Control System 57
4. Finkel'shteyn, S.M. On the Stability of an Automatic Control System With an Extended Impulse Pipeline 69
5. Sagaydak, N.A. Determination of the Time Constants of a Second-Order Element With a Lag 87

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Automation of Production Processes, No. 3

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6. Strakhova, L.P. On Capital and Operational Expenditures for Control and Measuring Instruments and Automation in Automated Production 90
7. Lossiyevskiy, V.L. On the Training of an Engineering Staff in the Field of Autcmation of Production Processes 97
8. Khasanov, M.M. Automation of the Process of Preparing the Air in Industrial Year-Round Air-Conditioning Installations 102
9. Krassov, I.M., and B.G. Turbin. Discharge Coefficients of a Hydraulic Back-Pressure Type Throttle 130

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12-16-60

SAGAYDAK, N.A.

Determination of the time constants of a second-order delay section. Avtom. proizv. prots. no.3:87-89 '60. (MIRA 13:10)
(Automatic control)

SAGAYDAK, N.D. (Moskva)

Data on the toxicology of radioactive iron. Gig.truda i prof.zab.
3 no.6:22-28 N-D '59. (MIRA 13:4)

1. TSentral'nyy institut usovershenstvovaniya vrachey i Institut
gigiyeny truda i profzabolevaniy AMN SSSR.
(IRON--TOXICOLOGY)

KOCHETKOVA, T.A.; AVRUNINA, G.A.; SAGAYDAK, N.D. (Moskva)

Carcinogenic properties of some radioactive compounds in the late period of their action. Arkh.pat. 24 no.5:3-7 '62.

(MIRA 15:5)

1. Iz radiotoksikologicheskoy laboratorii (zav. - prof. E.B. Kurlyandskaya), patomorfologicheskoy laboratorii (zav. - prof. P.P. Dvishkov) Instituta gigiyeny truda i profzabolevaniy (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Letavet) AMN SSSR.
(CARCINOGENS) (RADIOISOTOPES--PHYSIOLOGICAL EFFECT)

SAGAYDAK, P., polkovnik.

Rifle company in the forward detachment of an airborne landing force.
Voen. vest. 37 no.3:10-15 Mr '58. (MIRA 11:3)
(Airborne troops) (Infantry drill and tactics)

SAGAYDAK, P., polkovnik; TSYGANOK, A., polkovnik

Exercise with parachute troops and combat fire. Voen.vest. 39
no.8:37-40 Ag '60. (MIRA 14:2)
(Tactics--Problems, exercises, etc.)

SAGAYDAK, P., polkovnik

Tactical problem in airborne landing. Voen.vest. 39 no.2:63-65 F
'60. (MLA 14:2)

(Parachute troops)

SAGAYDAK, P., polkovnik

Airborne landing in the rear of the enemy. Voen.vest. 40 no.10:18-21
0 '60. (MIRA 14:5)

(World War, 1939-1945—Aerial operations)
(Russia—Army parachute troops)

SAGAYDAK, P., polkovnik

Out of a helicopter into combat. Voen.vest. 42 no.5:25-27
My '62. (MIRA 15:11)

(Landing operations)

SAGAYDAK, P., polkovnik

"Military applications of electronic computers" by V.S.Siniak.
Reviewed by P.Sagaidak. Voen. vest. 43 no.6:126-127 Je '63.
(MIRA 16:6)
(Electronic computers) (Military art and science)

1. SAGAYDAK, S.
2. USSR (600)
4. Knit Goods - Specifications
7. Grade and quality of goods. Sov. torg., No. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

ROSSIYEVSKIY, G.I., doktor tekhn.nauk; MONASTYRSKAYA, A.R., kand.
tekhn.nauk; OSTROVSKIY, S.I., inzh.; SAGAYDAK, T.A., inzh.

Effectiveness of equipping power systems with industrial
power plants of low capacity using counterpressure turbines.
Teploenergetika 7 no.7:64-69 J1 '60. (MIRA 13:7)

1. Moskovskiy inzhernerno-ekonomicheskij institut i
Energeticheskij institut AN SSSR.
(Electric power plants) (Steam turbines)

SAGAYDAK, T.A.

Methods of analyzing the efficiency of back-pressure turbines
for covering seasonal loads. Obshch. energ. no.3:86-95 '60.

(MIRA 14:3)

(Turbines) (Electric power)

SAGAYDAK, Vladimir Afanas'yevich, kand.tekhn.nauk

Graphical method for calculating the optimum parameters of the auxiliary winding of a single-phase motor with split poles. Izv. vys. ucheb. zav.; elektromekh. 5 no.12:1355-1364 '62. (MIRA 16:6)

1. Zaveduyushchiy kafedroy elektricheskikh mashin i apparatov
Novosibirskogo elektrotekhnicheskogo instituta.
(Electric motors, Induction)

SAGAYDAK

BOCHKOVA, O.P., kand.fiz.-mat.nauk; RAZUMOVSKAYA, L.P., inzh.;
SAGAYDAK, V.G., inzh.

Photoelectric method for the determination of nitrogen in
argon. Kislород 10 no.4:24-27 '57. (MIRA 11:2)
(Nitrogen--Analysis)
(Argon--Analysis)
(Photoelectric measurements)

5(3) 11(1) 14(1)

507/67-59-3-3/27

AUTHORS: Gittsevich, G. A., Engineer, Basyrov, Z. B., Engineer,
Sagaydak, V. G., Engineer

TITLE: New Data on the Explodibility of Hydrocarbon Mixtures in
Liquid Oxygen (Novyye dannyye o vzryvayemosti smesey ugle-
vodorodov v zhidkom kislorode)

PERIODICAL: Kislorod, 1959, Nr 3, pp 12 - 16 (USSR)

ABSTRACT: In this paper artificially obtained light hydrocarbons which
form in the action of high pressure in the last stages of the
compressors from lubricants are investigated with respect
to their explodibility in liquid oxygen. For this purpose
cylinder oil of the type P-28 was subjected to thermal crack-
ing at 180 atmospheres excess pressure and at 200-350° in an
autoclave (Fig 1). The apparatus is described. The following
resulted from the cracking process: gaseous hydrocarbons,
carbon dioxide, liquid hydrocarbons and a mass with signs
of coking as solid residue. The formation of liquid, easily
volatile cracking products which have a characteristic smell
was observed at 145° and at a pressure of 185 ata which is
in agreement with practical experience. The explosion tests
were carried out with liquid hydrocarbons with a boiling
point at 60-100°. Engineer T. K. Zhmakov assisted in these

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New Data on the Explodibility of Hydrocarbon Mixtures SOV/67-59-3-3/27
in Liquid Oxygen

tests. The explodibility of the hydrocarbons in liquid oxygen was determined by its sensitivity to pressure impulses. The character of an explosion occurring at a correspondingly high pressure impulse was determined from the destruction of the vessel. In table 2 the impulses necessary for an explosion of the individual mixtures investigated are listed. For comparison purposes parallel investigations were carried out with nitroglycerin. These experiments were conducted by N. D. Maurina. All hydrocarbon mixtures investigated showed a higher sensitivity to pressure impulses than nitroglycerin. An accumulation of hydrocarbons in liquid oxygen beyond the explosion limit is therefore most dangerous. No acetylen was found in the cracking product (Table 1). There are 2 figures, 2 tables, and 6 references, 5 of which are Soviet.

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S/032/61/027/003/014/025
B101/B203

11.3120

AUTHORS: Sagaydak, V. G. and Afonina, A. V.

TITLE: Photoelectric spectral method of determining small amounts of hydrogen in helium

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 3, 1961, 315-316

TEXT: High demands are made at present on pure helium with respect to its hydrogen content. The method developed by the authors permits a determination of up to 0.25% of hydrogen in helium. The analysis can be made in a helium flow or in glass vessels. Fig. 1 shows a diagram of the apparatus. Helium enters a molybdenum-glass discharge tube provided with an outer electrode. The diameter of the capillary tube is 1.5 mm, the pressure of He in the tube is 20 mm Hg. The gas flow is produced by a fore-pump, the luminescence in the discharge tube is excited by a high-frequency generator. A YM-24 (UM-24) monochromator is used as spectral apparatus. Its slit is successively adjusted for the lines He 4921.93 and H 4861.33 Å. The light is recorded by an ЭВ-17 (FEU-17) photomultiplier or an ФЭУ-1 (PEP-1) apparatus. The calibration curve was plotted by means of standards

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Photoelectric spectral method ...

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of He with different hydrogen contents prepared in a special vacuum plant. Discharge tubes (holding 10 ml) with outer electrodes were filled with the standard mixtures. The intensity of the H- and He lines was recorded as described above. The calibration curve (Fig. 2a) was drawn in the coordinates $I_{H\alpha}/I_{He\alpha}$ vs $C_{H_2}\%$. It was not only used to analyze He in glass vessels but also to determine standard mixtures He + H in five-liter metal cylinders. By means of the latter it is possible to produce a gas flow and to draw a second calibration curve (Fig. 2b) to determine H in flowing helium. The relative error was 10%. Analysis including sample-taking takes about 10 minutes. [Abstracter's notes: Complete translation.] There are 2 figures and 1 Soviet-bloc reference.

ASSOCIATION: Balashikhinskiy gosudarstvennyy kislородnyy zavod
(Balashikha State Oxygen Plant)

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Photoelectric spectral method ...

Legend to Fig. 1: 1) Discharge tube, 2) high-frequency generator, 3) condenser, 4) monochromator, 5) photomultiplier, 6) microammeter, 7) stabilized rectifier type BC-9 (VS-9), 8) forepump, 9) device for draining excessive gas, 10) mercury manometer, a) gas

Fig. 1

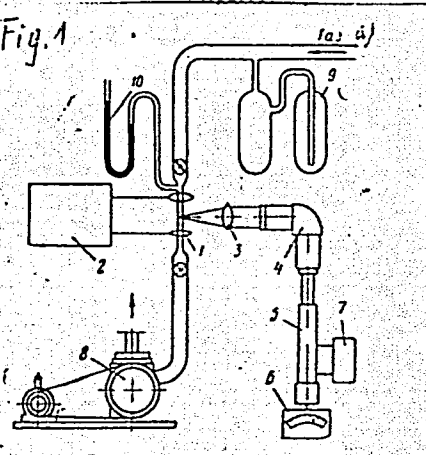


Fig. 1

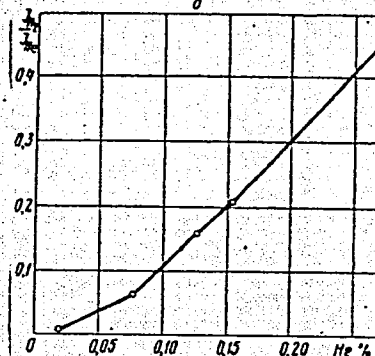
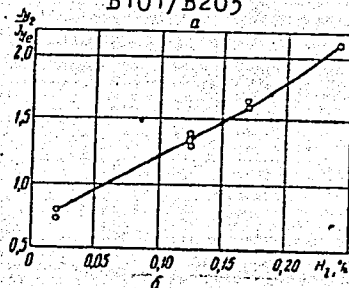
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Photoelectric spectral method ...

Legend to Fig. 2: Calibration curve
for determining hydrogen in highly
pure helium: a) from glass vessels;
b) in flowing helium

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SAGAYDAK, V.N.

Gastric polypi; based on data from the Hertzen Oncological Institute,
Vop. onk. 6 no. 8:56-61 Ag '60. (MIRA 14:1)
(STOMACH—TUMORS)

SAGAYDAK, V.N.

Care and treatment of oncological patients not subject to radical therapy. Med. sestra 19 no.12:16-19 D '60. (MIRA 13:12)

1. Iz Ministerstva zdravookhraneniya SSSR, Moskva.
(CANCER NURSING)

SAGAYDAK, V. N.

Cand Med Sci - (diss) "Stomach polyps. (From materials of the State Scientific Research Oncological Inst imeni P. A. Gertsen for the 25 years from 1933 to 1957)." Moscow, 1961. 15 pp; (Academy of Medical Sciences USSR); 250 copies; price not given; (KL, 5-61 sup, 206)

SAGAYDAK, V.N. (Moskva)

Role and tasks of the feldsher and midwife in carrying out preventive
oncological surveys in rural areas. Fel'd. i akush. 26 no. 2:19-21
F '61.

(MIRA 14:4)

(CANCER)

SAGAYDAK, V.N.

Anticancer fight in the U.S.S.R. Med.sestra 21 no.7:3-6 J1 '62.
(MIRA 15:8)

1. Glavnyy spetsialist po onkologii Ministerstva zdravookhraneniya
SSSR.

(CANCER)

SAGAYDAK-CHERNYAK, N. D. Cand Med Sci -- "Data ^{for} the toxicology of radioactive iron." Mos, 1961 (Inst of Labor Hygiene and Occupational Diseases, Acad Med Sci USSR). (KL, 4-61, 211)

-378-

SAGAYDAROV, I., zasluzhennyy artist USSR

People's theater. Mast. ugl. 9 no. 11:24-25 N '60. (MIRA 13:12)

1. Rezhisser Aleksandriyskogo narodnogo teatra.
(Amateur theatricals)

LOBOV, M.F.; SAGAYDOKOVSKAYA, V.N. ; doktor biologicheskikh nauk.

Stubble crops in irrigated areas in Rostov Province. Zemledelie
4 no.8:117-119 Ag '56. (MLRA 10:1)
(Rostov Province--Irrigation farming)

SAGAYDAKOVSKIY, N.V., inzh. (Vil'nyus)

Preserve the shelterbelt trees from snow damage. Put'i put.
khoz. no.7:37 J1 '59. (MIRA 12:10)
(Railroads--Snow protection and removal)

SAGAYLOV, G. V.

USSR/Chemistry - Chemical engineering

FD-3001

Card 1/1 Pub. 50 - 2/17

Author : Sagaylov, G. V., Chief Mechanic of the Ministry of Chemical
 Industry

Title : Some tasks of the repair and mechanical service at plants of the
 Ministry of Chemical Industry

Periodical : Khim. prom. No 6, 324-329, Sep 1955

Abstract : Outlines desirable procedures to be followed in repair and maintenance work at chemical plants and makes suggestions in regard to the organization of this work. Says that on the average 25% of production personnel are employed in repair and maintenance at USSR chemical plants, while in highly mechanized branches of production (e. g. the nitrogen and synthetic rubber industries) this figure rises to 35-40%.

SAGDEYEV, P. S.

"On the Mechanics of Preliminary Particle Acceleration in Rarefied Stellar
Atmospheres,"

13-20
report presented at the 10th Gen Assembly , Intl. Astronomical Union, /Aug 1958,
Moscow,

SAGDEYEV, R.Z.

The theory of stellar opacity [with summary in English]. Astron.zhur.
33 no.6:840-844 N-D '56. (MIRA 10:1)
(Astrophysics)

SAGDEYEV R. Z.

RUDAKOV, L. I. and SAGDEYEV, R. Z.
SAGDEYEV

"Investigation of the Stability of a Cylindrical Plasma Column by Methods of Kinetic Equations." (Work carried out in 1958); pp. 54-60.

"The Physics of Plasma; Problems of Controlled Thermonuclear Reactions." Vol. IV. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

SAGDEYEV, R. Z.

RUDAKOV, L. I. and SAGDEEV, R. Z.

"High Frequency Heating of Plasma." (Work carried out in 1956); pp. 153-164.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions:" Vol. III.
1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

SAGDEYEV R Z.
RUDAKOV, L. I. and SAGDEEV, R. Z.

"A Quasi-Hydrodynamic Description of a Dilute Plasma in a Magnetic Field."
(Work carried out in 1957); pp. 268-277.

"The Physics of Plasma; Problems of Controlled Thermonuclear Reactions." Vol. III.
1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

SAGDEEV, R. Z.
VEDENOV, A. A. and SAGDEEV, R. Z.

"Some Properties of the Plasma with Anisotropic Distribution of the Velocities of Ions in the Magnetic Field" (Work carried out in 1957); pp. 278-284.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. III. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

SAGDEYEV R. Z.
SAGDEEV, R. Z.

"Containment of the Plasma by the Pressure of a Standing Electro-Magnetic Wave."
(Work carried out in 1957); pp. 346-361.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. III.
1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

SAGDYEV R. S.
SAGDYEV, R. S.

"Non-Linear Motions of a Diluted Plasma in a Magnetic Field," (Work carried out in 1958); pp. 384-390.

"Absorption of Electro-Magnetic Waves Propagating Along a Constant Magnetic Field in a Plasma." (Work carried out in 1958); pp. 422-425.

"The Physics of Plasma; Problems of Controlled Thermonuclear Reactions." Vol. IV. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

SAGDEYEV, R. Z. and SHAFRANOV, V. D.

"The Vibrations of a Plasma with Consideration of the Heat Motion of the Ions." (Work carried out in 1958); pp. 430-435.

"The Physics of Plasma; Problems of Controlled Thermonuclear Reactions." Vol. IV. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

FRANK-KAMENETSKIY, D.A., prof., otv.red.; VORONTSOV-VEL'YAMINOV, B.A.,
red.; SMORODINSKIY, Ya.A., prof., red.; ZEL'MANOV, A.L.,
starshiy nauchnyy sotrudnik, red.; SAGDEYEV, R.Z., mladshiy
nauchnyy sotrudnik, red.; SAMSONENKO, L.V., red.izd-va;
SHEVCHENKO, G.N., tekhn.red.

[Transactions of the sixth conference on cosmogony; extra-galactic
astronomy and cosmology] Trudy shestogo soveshchaniia po vopro-
sam kosmogonii, 5-7 iunია 1957 g.; vnegalakticheskaiia astronomiia
i kosmologiia. Moskva, Izd-vo Akad.nauk SSSR, 1959. 273 p.
(MIRA 12:12)

1. Soveshchaniye po voprosam kosmogonii, 6yh, 1957. 2. Chlen-
korrespondent Akademii pedagogicheskikh nauk SSSR (for Vorontsov-
Vel'yaminov).

(Cosmology--Congresses)

Voprosy Magnetnoy Gidrodinamiki i Plazmy. 1953. 2-10 July 1953. 117 pp.

The majority of the texts of the 55 conference reports and discussions of reports are presented in abbreviated form. Previously published reports are included only as brief abstracts only. The material published here for the first time (abridged and unabridged) are as follows:

"The Role of Magnetohydrodynamics and Plasma Dynamics in Certain Problems of Astrophysics," by D. A. Frank-Kamenetskii, Moscow, pp 7-11.

"Magnetohydrodynamics and the Study of Variations of Cosmic Rays," by L. I. Dorman, Moscow, pp 13-14.

"Cosmic Ray Spectra and Their Role in Cosmic Gas Dynamics," by S. I. Syrovatskii, Moscow, pp 45-48.

"The Influence of a Magnetic Field on the Stability of Flow of a Conducting Fluid," by Ye. P. Mal'baev, Moscow, pp 49-52.

"Some Problems of the Motion of a Rarefied Plasma in a Magnetic Field," by Ye. P. Terletskii, Moscow, pp 53-62.

"On Nonlinear Steady-State Solutions of a Rarefied Plasma in a Magnetic Field," by R. Z. Sagdeev, Moscow, pp 63-65.

"On One Criterion of Applicability of the Equations of Magnetohydrodynamics to a Plasma," by S. I. Bratschkov, Moscow, pp 67-72 (Discussion of the report by R. V. Polovin, Khar'kov, pp 71-72).

"On the Possibility of Accelerating Charged Particles by Means of Shock Waves in a Magnetized Plasma," by L. I. Dorman and S. I. Syrovatskii, Moscow and Gorkiy, pp 77-81.

"On the Acceleration of Charged Particles During Powerful Impulse Discharges and During the Collision of Magnetized Clouds," by L. I. Dorman, Moscow, pp 83-88.

"The Influence of a Longitudinal Magnetic Field on the Temperature of the Electrons in a Plasma," by N. V. Konyukov, Tula, pp 89-92.

"Investigation of Certain Characteristics of a Plasma of Xenon and Argon Behind a Powerful Shock Wave," by S. R. Eshel, Moscow, pp 93-103.

"Observation of Electrodynamical Constriction of an Arc With the Aid of an Electron-Optical Converter," by V. L. Ginzburg, K. P. Kravtsov, V. I. Savitskiy, and G. G. Tsibul'skiy, Moscow, pp 107-115.

"On the Interaction of Weak Perturbations With Discontinuities and the Stability of Shock Waves in Magnetohydrodynamics," by V. N. Kamberovich, Khar'kov, pp 117-125.

"On the Stability of Shock Waves in Magnetohydrodynamics," by S. I. Syrovatskii, Moscow, pp 127-131.

"On the Scattering of Hydromagnetic Waves on Turbulent Fluctuations," by A. G. Sitenko and Yu. A. Il'inskiy, Khar'kov, pp 133-136.

"On the Damping of Magnetohydrodynamic Waves in a Plasma," by R. Z. Sagdeev, Moscow, pp 147-149.

"Simple Waves in Magnetohydrodynamics," by A. I. Akhiezer, G. Ya. Ignatyuk, and R. V. Polovin, Khar'kov, pp 151-157.

"On-Dispersional Problems of Magnetohydrodynamics," by G. S. Golitsyn, Moscow, pp 161-165.

"On Wave-Induced Flow in Magnetohydrodynamics," by A. I. Ivanchenko, Moscow, pp 167-171.

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"On Magnetic Boundary Layers and Electric Current Discharges in Moving Media," by V. E. Zolotarev, Moscow, pp 183-190.

SAGDEEV R. Z.

SAGDEYEV, R.Z.

PLASMA I BOOK REPLENISHMENT 507/5762

Knabventstiya po magnitnoy gidrodinamike, Riga, 1958.

Voprosy magnitnoy gidrodinamiki i dinamiki plazmy: trudy konferentsii. (Problems in Magnetohydrodynamics and Plasma Dynamics; Transactions of a Conference) Riga, Izd-vo AN Latvyskoy SSR, 1959. 343 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Latvyskoy SSR, Institut fiziki.

Editorial Board: D.A. Frank-Kamenetskii, Doctor of Physics and Mathematics; Professor; A.I. Vol'pert, Doctor of Chemical Sciences; Professor; I.M. Kirko, Doctor of Physics and Mathematics; V.Ye. Yel'm, Candidate of Physics and Mathematics; Y.M. Pich, Candidate of Physics and Mathematics; Yu.M. Krumin; and V.Ye. Kravchenko.

Ed.: A. Feyzulin; Tech. Ed.: A. Klyavina

PREFACE: This book is intended for physicists working in the field of magnetohydrodynamics and plasma dynamics.

CONTENTS: This volume contains the transactions of a conference held in Riga, June 1958, on problems in applied and theoretical magnetohydrodynamics. The objects of the conference were the investigation of the basic trends in theoretical and applied magnetohydrodynamics, establishing contact between the people doing research in different branches of magnetohydrodynamics and promoting the participation of theoretical physicists in the development of magnetohydrodynamics. More than 100 papers were read. Similar conferences have been held in the USSR and abroad. The first such conference is scheduled to be held in Riga in July in the future; 35 papers were read. Similar conferences are being held in an abridged form. The book is divided into two parts: the first part deals with problems in theoretical magnetohydrodynamics and plasma dynamics, and consists of 35 articles on such aspects of the problem as the application of magnetohydrodynamics in astrophysics (D.A. Frank-Kamenetskii), magnetohydrodynamics and the investigation of cosmic-ray variations (L.I. Ginzburg), acceleration of plasma in a magnetic field (G.F. Borovitskiy, A.I. Osipov), stability of shock waves and magnetohydrodynamics (A.I. Osipov), experimental magnetohydrodynamics, including the application of electrical stimulation for investigation of electromagnetic processes in liquid metals (I.M. Kirko) and the development of electromagnetic devices (P.G. Kirilov), at the Institute of Physics of the Academy of Sciences, Latvian SSR. Several articles are devoted to induction heating, electromagnetic crucibles, electromagnetic stirrers for molten metals, and their application in the metallurgical industry including schematic diagrams of their power-supply systems. References are given at the end of most of the articles.

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S/169/61/000/007/082/104
A006/A101

AUTHOR: Sagdeyev, R.Z.

TITLE: On the damping of magnetohydrodynamic waves in plasma

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 7, 1961, 24, abstract 7G156
(V sb. "Vopr. magnitn. gidrodinamiki i dinamiki plazmy", Riga, AN
LatvSSR, 1959, 147 - 149)

TEXT: The author analyzes damping of a magnetohydrodynamic wave in rare-
fied plasma on account of relaxation processes. Damping due to relaxation pro-
cesses appears to be by $1^2/r^2$ times higher than damping connected with viscosity
and heat conductivity (l - is the length of free range, r is the Larmor radius). 44

G. L.

[Abstracter's note: Complete translation]

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09/20/2007

FRANK J. ROSE REPLICATION

International Conference on the Peaceful Uses of Atomic Energy, 24., Geneva, 1958
 Academy of Sciences of the USSR (Reports of Soviet Scientists)
 Nuclear Physics Moscow, Atomizdat, 1959. 520 p. (Series: Ital Treaty, Vol. 1
 8,000 copies printed.

Ms. (Title page): A.I. Altkhov, Academician; V.I. Vekler, Academician; and G.A. Vlasov, Candidate of Physical and Mathematical Sciences; Ed. of this volume: S.I. Brodetskiy and D.P. Zaretskiy, Candidates of Physical and Mathematical Sciences; Ms. (Inside book): G.I. Smolyan; Tech. Ed.: Ye.I. Maslov.

NOTES: This collection of articles is intended for scientific research workers and other persons interested in nuclear physics. The volume contains 4) papers presented by Soviet scientists at the Second Conference on Peaceful Uses of Atomic Energy, held in Geneva in September 1960.

CONTENTS. It is divided into two parts. Part I contains 17 papers dealing with plasma physics and controlled thermonuclear reactions, and Part II contains 26 papers on nuclear physics, including problems of particle acceleration and of cosmic ray physics. The first paper by L.A. Arturovich presents a review of Soviet work on controlled thermonuclear reactions. The remaining papers in Part I deal with particular problems in this field.

present in Part II deal in detail with various problems in nuclear physics, such as the question of heavy atoms and their isotopes, and with the study of cosmic radiation by means of artificial earth satellites and rockets, described in a paper by S.S. Yavorov. The Russian-language edition of the proceedings of the conference is published in six volumes. The first 6 volumes contain all the papers presented by Soviet scientists as follows: Volume (1), *Nuclear Physics* (Nuclear Reactors); Volume (2), *Nuclear Reactions*; Volume (3), *Nuclear Energy* (Nuclear Reactor and Nuclear Power); Volume (4), *Nuclear Radiation*; Volume (5), *Radiation and Matter* (Radiation and Matter); Volume (6), *Radiation and Matter* (Radiation and Matter). The other 10 volumes contain selected papers presented at the Conference by non-Soviet scientists. Editions of the proceedings have been issued in French, English and Russian. Editions of the proceedings in German, Italian, Japanese, Polish, Portuguese, Spanish, Swedish, Turkish and Yugoslav languages are also being prepared. The serial numbers of reports 2202 and 2204 are reversed in the Russian edition. Report 2211, by Sklarin, et al., is numbered 9536 in the Russian edition.

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SAGDEYEV, R. Z.

82607

S/056/60/039/01/22/029
B006/B063

24.2120

AUTHORS: Sagdeyev, R. Z., Shafranov, V. D.

TITLE: Instability of a ²¹Plasma With an Anisotropic Distribution
of Velocities in a Magnetic Field |

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki,
1960, Vol. 39, No. 1(7), pp. 181-184

TEXT: The authors of the present paper study the instability of a plasma with a non-Maxwellian velocity distribution of ions (or electrons). The instability is assumed to have two causes: 1) the existence of a "beam"; 2) longitudinal or transverse "temperature" anisotropy with respect to the static magnetic field. The latter case is studied in this paper. Preceding papers (Refs. 1 and 2) have shown that a convective instability ($\text{Re}(\omega) \neq 0$) may occur in "drift" approximation with a sufficiently strong anisotropy of the ion (or electron) temperature. The "drift" approximation employed in these papers is, however, only applicable if the Larmor radius of all particles is very small compared to the perturbation wavelength, i.e., if the Larmor frequency is very high compared to the vibration frequency.

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Instability of a Plasma With an Anisotropic
Distribution of Velocities in a Magnetic Field

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B006/B063

A transition to higher frequencies is accompanied by instabilities of the type of vibrations with increasing amplitude ($\text{Re}(\omega) \neq 0$). Such a plasma, whose electrical properties are indicated by the tensor $\epsilon_{\alpha\beta}(\omega, k)$, is considered, and the occurrence of instabilities is separately studied for electronic and ionic oscillations. It is shown that a plasma located in a homogeneous magnetic field will also become unstable in the case of slight temperature anisotropy $|T_{\perp} - T_{\parallel}|/T \ll 1$. This instability is due to those charges in the tail of the velocity distribution which are in cyclotron resonance with the perturbation wave. Finally, the authors thank Academician M. A. Leontovich and B. B. Kadomtsev for their discussions. There are 1 figure and 4 Soviet references.

SUBMITTED: February 25, 1960

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SAGDEYEV, R. Z.

"Magnetohydrodynamic Shock Waves in an Ionized Gas of Low Density."

report presented at the Symposium on ~~the~~ Electromagnetics and Fluid Dynamics,
Brooklyn Polytech. Inst, New York, 4-6 April 1961.

ARTSIMOVICH, Lev Andreyevich. Prinimal uchastiye SAGDEYEV, R.Z.; LESHKOV-
TSEV, V.A., red.; LIVSHITS, B.L., red.; BRUDNO, K.F., tekhn. red.

[Controlled thermonuclear reactions] Upravliaemye termoiadernye
reaktsii. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 467 p.
(MIRA 14:9)

(Thermonuclear reactions)